EPA REG FILE 91540-2 DATA MATRIX FEBRUARY 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

	DATA M	ATRIX			
Date Feb. 3, 2017			EPA Reg No./File Symbol 91540-E		Page 1 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		Product Bispyribac-Sodium Technical			
ngredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Suideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
330.1550	Product Identity and Composition	49857401	Esstar Crop Science, Inc.	OWN	
330.1600	Description of Materials Used to Produce the Product	49857401	Esstar Crop Science, Inc.	OWN	
330.1620	Description of Production Process	49857401	Esstar Crop Science, Inc.	OWN	
330.1650	Description of Formulation Process				Not Required ¹
330.1670	Discussion of Formation of Impurities	49857401	Esstar Crop Science, Inc.	OWN	
330.1700	Preliminary Analysis	49857402	Esstar Crop Science, Inc.	OWN	
830.1750	Certified Limits	49857401	Esstar Crop Science, Inc.	OWN	
830.1800	Enforcement Analytical Method	49857402	Esstar Crop Science, Inc.	OWN	
830.6302	Color	49857403	Esstar Crop Science, Inc.	OWN	
830.6303	Physical State	49857403	Esstar Crop Science, Inc.	OWN	
830.6304	Odor	49857403	Esstar Crop Science, Inc.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	49857403	Esstar Crop Science, Inc.	OWN	See endnote ²
830.6314	Oxidation/Reduction: Chemical Incompatibility	49857403	Esstar Crop Science, Inc.	OWN	
830.6315	Flammability	49857403	Esstar Crop Science, Inc.	OWN	Waiver ³
830.6316	Explodability	49857403	Esstar Crop Science, Inc.	OWN	Waiver ⁴
830.6317	Storage Stability	49857403	Esstar Crop Science, Inc.	OWN	
Signature			Ann M. Tillman, Agent		Date Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

		DATA MATRIX		
Date Feb. 3, 2017			EPA Reg No./File Symbol 91540-E	Page 2 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632			Product Bispyribac-Sodium Te	chnical
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)			
		Time VI V		Taran

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319	Miscibility				Not Applicable ⁵
830.6320	Corrosion Characteristics	49857403	Esstar Crop Science, Inc.	OWN	
830.6321	Dielectric Breakdown Voltage				Not Required ⁵
830.7000	pH	49857403	Esstar Crop Science, Inc.	OWN	
830.7050	UV/Visible Absorption	49857403	Esstar Crop Science, Inc.	OWN	
830.7100	Viscosity				Not Applicable ⁵
830.7200	Melting Point/Melting Range	49857403	Esstar Crop Science, Inc.	OWN	
830.7220	Boiling Point/Boiling Range				Not Required ⁶
830.7300	Density/Relative Density/Bulk Density	49857403	Esstar Crop Science, Inc.	OWN	
830.7370	Dissociation Constants in Water	49857403	Esstar Crop Science, Inc.	PL	
830.7520	Particle size, fiber length, diameter distribution	49857403	Esstar Crop Science, Inc.	OWN	Waiver ⁵
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	49857403	Esstar Crop Science, Inc.	PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550

Signature	Name and Title	Date
an M. Teller	Ann M. Tillman, Agent	Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

DATA	DATA MATRIX				
Date Feb. 3, 2017	EPA Reg No./File Symbol 91540-E	Page 3 of 18			
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632	Product Bispyribac-Sodium Technical				
Ingredient Bispyribac-sodium (CAS No. 125401-92-5)					

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	49857403	Esstar Crop Science, Inc.	PL	
830.7860	Water Solubility, Generator Column Method				See 830.7840
830.7950	Vapor Pressure	49857403	Esstar Crop Science, Inc.	PL	
870.1100	Acute Oral Toxicity: Rat	44889127		OLD	See endnote ⁷
870.1200	Acute Dermal Toxicity: Rat	44889128 44889129		OLD OLD	See endnote ⁸
870.1300	Acute Inhalation Toxicity: Rat	44889130		OLD	See endnote9
870.2400	Primary Eye Irritation: Rabbit	44929911 44929912		OLD OLD	See endnote ¹⁰
870.2500	Primary Dermal Irritation	44929913		OLD	See endnote ¹¹
870.2600	Dermal Sensitization	44929914		OLD	See endnote ¹²
Generic Data					
850.2100	Acute Avian Oral Toxicity	44929903		OLD	See endnote/ Not required ¹³

Signature	Name and Title	Date
ann M. Teller	Ann M. Tillman, Agent	Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

		DATA MATRIX			
Date Feb. 3, 2017			EPA Reg No./File Symbol 91540-E		Page 4 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632			Product Bispyribac-Sodium Technical		
Ingredient Bispyribac-sodium (C	AS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2200	Acute Avian Dietary Toxicity	44929904		OLD	See endnote ¹⁴
		44929905		OLD	
850.2400	Wild Mammal Toxicity				Not required
850.2300	Avian Reproductive Toxicity	45197301		OLD	See endnote ¹⁵
	VICE 8	45197302		OLD	
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	44889114		OLD	See endnote ¹⁶
	77 39	44889115		OLD	
850.1010	Freshwater Invertebrate Toxicity	44889116		OLD	See endnote ¹⁷
850.1025, 850.1035,	Acute Toxicity Estuarine and Marine Organisms	44889118		OLD	See endnote ¹⁸
850.1045, 850.1055,		44889117		OLD	
850.1075		44889119		OLD	
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	44889120		OLD	See endnote ¹⁹
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required ²⁰
850.1400	Fish Early Life Stage (Freshwater)				Not required ²¹
850.1400	Fish Early Life Stage (Saltwater)				Not required ²²
850.1500	Life Cycle Fish				Not required ²³

Signature	Name and Title	Date
ann M. Teller	Ann M. Tillman, Agent	Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

	DATA	MATRIX			
Date Feb. 3, 2017	Date Feb. 3, 2017		EPA Reg No./File Symbol 915	40-E	Page 5 of 18
Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632			Product Bispyribac-Sodium Technical		I
Ingredient Bispyribac-sodium (C	AS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity				Not required ²⁴
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required ²⁵
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required ²⁶
850.3020	Honey Bee Acute Contact Toxicity	44889224		OLD	See endnote ²⁷
Non-guideline	Adult Honey Bee Acute Oral Toxicity (OECD 213)			GAP	See endnote ²⁸
Non-guideline	Honey Bee Larval Toxicity Test (OECD 237)			GAP	See endnote ²⁵
Non-guideline	Adult Honey Bee Chronic Oral Toxicity			GAP	See endnote ²⁸
Non-guideline	Larval Honey Bee Chronic Oral Toxicity			GAP	See endnote28
850.3030	Honeybee Toxicity of Residues on Foliage				Not required ³⁰
850.3040	Field Testing for Pollinators				Not required ³¹
870.6100	Delayed Neurotoxicity (Acute) - Hen				Not required
870.6200	Acute Neurotoxicity – Rat				Not required ³²
Signature			Name and Title		Date
ann M. Jeller			Ann M. Tillman, Agent		Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

send the form to this address.					
	DATA M	ATRIX			
Date Feb. 3, 2017			EPA Reg No./File Symbol 9	1540-E	Page 6 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632			Product Bispyribac-Sodium Technical		
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3100	90-Day Oral: Rodent	44929916		OLD	See endnote ³³
		44929917		OLD	
870.3150	90-Day Oral: Non-Rodent	44889132		OLD	See endnote ³⁴
870.3200	21/28-Day Dermal Toxicity	44889133		OLD	See endnote ³⁵
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity				Not required ³⁶
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity				Not required ³⁷
870.4100	Chronic Oral Rodent	44929924		OLD	See endnote ³⁸
870.4200	Carcinogenicity	44929924		OLD	See endnote ³⁹
		44929920		OLD	
870.3700	Reproduction/Developmental Toxicity Screening	44929921		OLD	See endnote ⁴⁰
	Test	44889201		OLD	
		44889136		OLD	
870.3800	2-Generation Reproduction: Rat	44929923		OLD	See endnote ⁴¹
870.6300	Developmental Neurotoxicity Study				Not required

Signature	Name and Title	Date
ann M. Teller	Ann M. Tillman, Agent	Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

DATA N	MATRIX	
Date Feb. 3, 2017	EPA Reg No./File Symbol 91540-E	Page 7 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632	Product Bispyribac-Sodium Tec	hnical

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5100	Bacterial Reverse Mutation Test	44889210		OLD	See endnote ⁴²
		44889203		OLD	
		44889204		OLD	
		44889205		OLD	
		44889206		OLD	
		44889207		OLD	
		44889212		OLD	
		44929926		OLD	
		44929927		OLD	
		44929928		OLD	
870.5300, 870.5375	In vitro Mammalian Cell Assay	46076601	Valent USA Corporation	PAY	See endnote ⁴³
		44889208		OLD	
870.5385, 870.5395,	In vivo Cytogenetics and Other Effects	44889211		OLD	See endnote44
870.5450, 870.5550		44929925		OLD	
		44889209		OLD	

Signature	Name and Title	Date
am M. Jeller	Ann M. Tillman, Agent	Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

	DA	ATA MATRIX			
Date Feb. 3, 2017 Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		EPA Reg No./File Symbol 91540-E		Page 8 of 18	
		Product Bispyribac-Sodium Technical			
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7485	Metabolism and Pharmacokinetics	44889213 44889214 44889215 44889216		OLD OLD OLD	See endnote ⁴⁵
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity				Not required ⁴⁶
Nonguideline	Nonguideline	44929929 44979001 44979002		OLD OLD OLD	See endnote ⁴⁷
875.1100	Dermal Exposure – Outdoor		AHETF	OWN	See endnote ⁴⁸
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		AHETF	OWN	See endnote ⁴⁸
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring				Not required
875.1600	Data Reporting and Calculations				Not required
875.1700	Product Use Information				Not required
Signature			Name and Title		Date
am m. Jelle			Ann M. Tillman, Agent		Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

	DA	TA MATRIX			
Date Feb. 3, 2017 Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		EPA Reg No./File Symbol 91540-E		Page 9 of 18	
		Product Bispyribac-Sodium Technical			
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)		***************************************		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues				
875.2200	Soil Residue Dissipation		ORETF ARTF	OWN	See endnote ⁴⁹
875.2300	Indoor Surface Residue Dissipation				
875.2400	Dermal Exposure		ORETF ARTF	OWN	See endnote ⁴⁹
875.2500	Inhalation Exposure		ORETF ARTF	OWN	See endnote ⁴⁹
875.2600	Biological Monitoring				Not required
875.2700	Product Use Information				Not required
875.2800	Descriptions of Human Activity				Not required
875.2900	Data Reporting and Calculations				Not required
875.3000	Nondietary Ingestion Exposure				Not required
201-1	Droplet Size Spectrum		SDTF	OWN	See endnote ⁵⁰
202-1	Droplet Size Spectrum		SDTF	OWN	See endnote ⁵⁰
Signature			Name and Title		Date
am M. Jelle			Ann M. Tillman, Agent		Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

		DATA MATRIX			
Date Feb. 3, 2017			EPA Reg No./File Symbol 91540-E	Page 10 of 18	
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		Product Bispyribac-Sodium Technical			
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4100	Tier 1: Seedling Emergence	44889222		OLD	See endnote ⁵¹
850.4150	Tier 1: Vegetative Vigor	44889221		OLD	See endnote ⁵²
850.4400, 850.5400	Tier 1: Aquatic Plant Growth	44889223		OLD	See endnote ⁵³
		46076602	Valent USA Corporation	PAY	
		44889217		OLD	
		44889219		OLD	
		44889220		OLD	1
		44889218		OLD	
850.4100	Tier 2: Seedling Emergence	44889222		OLD	See endnote ⁵¹
850.4150	Tier 2: Vegetative Vigor	44889221		OLD	See endnote ⁵²
850.4400, 850.5400	Tier 2: Aquatic Plant Growth	44889223		OLD	See endnote ⁵³
		46076602	Valent USA Corporation	PAY	
		44889217		OLD	
		44889219		OLD	
		44889220		OLD	
		44889218		OLD	
850.4300	Terrestrial Field				Not required
Signature			Name and Title		Date
am M. Jelle			Ann M. Tillman, Agent		Feb. 3, 2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

	D	ATA MATRIX			
Date Feb. 3, 2017			EPA Reg No./File Symbol 91540-E		Page 11 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		Product Bispyribac-Sodium Technical			
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	44889226		OLD	See endnote ⁵⁴
835.2240	Photodegradation in Water	44889227		OLD	See endnote ⁵⁵
835.2410	Photodegradation in Soil	44889228		OLD	See endnote ⁵⁶
835.2370	Photodegradation in Air				Not required ⁵⁷
835.4100	Aerobic Soil Metabolism	44929931		OLD GAP	See endnote ⁵⁸
835.4200	Anaerobic Soil Metabolism				Not required/ See 835.4400 ⁵
835.4300	Aerobic Aquatic Metabolism			GAP	See endnote ⁶⁰
835.4400	Anaerobic Aquatic Metabolism	45359301	K-1 Chemical USA, Inc.	PAY	See endnote ⁶¹
835.1230	Leaching/Adsorption/Desorption	44889231		OLD	See endnote ⁶²
835.1410	Volatility – Laboratory				Not required ⁶³
835.8100	Volatility - Field				Not required
835.6100	Soil Field Dissipation Study				Not required ⁶⁴
Signature			Name and Title		Date

Feb. 3, 2017

Ann M. Tillman, Agent

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for reregistration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

send the form to this address.					
	DATA	MATRIX			
Date Feb. 3, 2017		EPA Reg No./File Symbol 9	1540-E	Page 12 of 18	
Applicant's/Registrant's Name & Ad	Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		Product Bispyribac-Sodium Technical		
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6200	Aquatic Sediment Field Dissipation Study	44889235 44929932		OLD OLD	See endnote65
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	45243501 45243502 45243503 44889238 44889239 44889240 44889241 44889242 44889243		OLD	See endnote ⁶⁶
860.1300	Nature of the Residue: Plants	44889246 44929933		OLD OLD	

Signature

Date

Feb. 3, 2017

Name and Title

Ann M. Tillman, Agent

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

	DATA	A MATRIX			
Date Feb. 3, 2017			EPA Reg No./File Symbol 9	1540-E	Page 13 of 18
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632		Product Bispyribac-Sodium Technical			
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Livestock	44889245		OLD	
		44889248		OLD	
860.1850	Confined Rotational Crops	44889237		OLD	
860.1340	Residue Analytical Methods	44889247		OLD	See endnote ⁶⁷
	W. January S. Salvey and Established Antibodish Association and Property and Company of the Comp	45048801		OLD	
860.1360	Multiresidue Method	44889244		OLD	
860.1380	Storage Stability	44889236		OLD	
		44889250		OLD	
		44889251		OLD	
860.1500	Magnitude of the Residue in Plants: rice	44889236		OLD	
		44889250		OLD	
		44889251		OLD	

Signature	Name and Title	Date
ann M. Teller	Ann M. Tillman, Agent	Feb. 3, 2017

44889236

44889250

44889251

Feed: rice

and Eggs

860,1520

860,1480

Magnitude of the Residue in Processed Food or

Magnitude of the Residue in Meat, Milk, Poultry,

OLD

OLD

Waived⁶⁸

Not required

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

send the form to this address.						
	DATA M	ATRIX				
Date Feb. 3, 2017			EPA Reg No./File Symbol 91	540-E	Page 14 of 18	
Applicant's/Registrant's Name & Address Esstar Crop Science Inc. 3187 Robertson Gin Road Hernando, MS 38632			Product Bispyribac-Sodium Technic		al	
Ingredient Bispyribac-sodium (C	CAS No. 125401-92-5)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required	
860.1400	Magnitude of the Residue in Fish				Not required ⁶⁵	
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water	44889249		OLD		
860.1460	Magnitude of the Residue in Food Handling				Not required	

Signature	Name and Title	Date
ann M. Teller	Ann M. Tillman, Agent	Feb. 3, 2017

Establishments

860.1900

Field Rotational Crops

- ² 830.6313 Esstar Crop Science, Inc. will not be packaging Bispyribac-Sodium Technical in metal containers, nor is it expected that Bispyribac-Sodium Technical will come in contact with metals or metal ions during its storage. Bispyribac-Sodium Technical was found to be stable to normal and elevated temperatures (MRID 49857403). Esstar Crop Science, Inc. requests a waiver from the stability to metal and metal ion requirement for this guideline.
- ³ 830.6315 Esstar Crop Science, Inc. requests a waiver from the requirement of this data requirement since Bispyribac-Sodium Technical is a solid and does not contain flammable components. Please refer to the Confidential Statement of Formula for Bispyribac-Sodium Technical.
- 4 830.6316 Esstar Crop Science, Inc. requests a waiver from this data requirement because Bispyribacsodium does not have the chemical bonds or functional groups associated with explosive chemicals.
- ⁵ 830.6319, 830.6321, 830.7100, 830.7520 Bispyribac-Sodium Technical is a solid and not an emulsifiable concentrate and is not to be diluted with petroleum solvents. Therefore, miscibility data are not applicable to this technical. Bispyribac-Sodium Technical is not an end use product to be used around electrical equipment and data for dielectric breakdown constant are not required for technical materials. Bispyribac-Sodium Technical is a solid and not a liquid, therefore, viscosity data are not applicable to this product. Esstar Crop Science, Inc. is seeking a waiver for Particle Size, Fiber Length, and Diameter Distribution for Bispyribac-Sodium Technical because the product is not a fibrous material or a water-insoluble material.
- ⁶ **830.7220** Bispyribac-Sodium Technical is a solid and boiling point data are not required for solids. Data for melting point are required for solids. See Guideline 830.7200.
- ⁷ 870.1100 The study cited is acceptable and satisfies the data requirement as per the June 4, 2014 Bispyribac-Sodium; Human-Health Assessment Scoping Document in Support of Registration Review (DP Barcode D417912) (Scoping Document).
- ⁸ 870.1200 MRID 44889128 is acceptable and satisfies the data requirement as per the Scoping Document. MRID 44889129 is also cited.
- ⁹ 870.1300 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 10 870.2400 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- 11 870.2500 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 12 870.2600 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 850.2100 MRID 44929903 is acceptable and satisfies the data requirement for upland game species as per the May 29, 2014 Registration Review: Preliminary Problem Formulation for Environmental Fate, Ecological Risk, Endangered Species, and Human Health Drinking Water Exposure Assessments for Bispyribac-Sodium (DP Barcode D417911) (Problem Formulation). The Problem Formulation also stated that passerine data are not required.
- 14 850.2200 The studies cited are acceptable and satisfy the data requirement per the Problem Formulation.
- ¹⁵ **850.2300** The studies cited are acceptable and satisfy the data requirement per the Problem Formulation.
- ¹⁶ **850.1075** Although the studies cited are classified as supplemental, the Problem Formulations states that the studies satisfy the data requirement.

¹ 830.1650 - These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.

- ¹⁷ **850.1010** Although the study cited is classified as supplemental, the Problem Formulations states that the study satisfies the data requirement.
- ¹⁸ 850.1025, 850.1035, 850.1045, 850.1055, 850.1075 Although the studies cited are classified as supplemental (MRID 44889118 was classified as acceptable), the Problem Formulations states that the studies satisfy the data requirement.
- 19 850.1300 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- ²⁰ **850.1350** These data are not required as per the Problem Formulation.
- 21 850.1400 Esstar Crop Science, Inc.is proposing formulation into end-use products for rice only. The data submitted for this data requirement were recently submitted to support the use of bispyribac in aquatic non-food areas. Because this use site is not proposed on Esstar Crop Science, Inc.'s label, no data are cited here.
- ²² 850.1400 These data are not required as per the Problem Formulation.
- ²³ **850.1500** These data are not required as per the Problem Formulation.
- ²⁴ **850.1710**, **850.1730**, **850.1850** These data are not required as per the Problem Formulation.
- ²⁵ **850.1735** These data are not required as per the Problem Formulation.
- ²⁶ 850.1740 These data are not required as per the Problem Formulation.
- 27 850.3020 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- Nonguideline These data were required in the Nov. 2014 Bispyribac-Sodium Final Work Plan (Final Work Plan), but a Data Call-In has not yet been issued, nor does it appear that these data have been submitted.
- ²⁹ **Nonguideline** These data were required in the Problem Formulation and Final Work Plan, but a Data Call-In has not yet been issued, nor does it appear that these data have been submitted.
- ³⁰ **850.3030** These data are not required as per the Problem Formulation.
- 31 850,3040 These data are not required as per the Problem Formulation.
- 32 870.6200 EPA stated in the Scoping Document that these data are not required for bispyribacsodium.
- 33 870.3100 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- 34 870.3150 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 35 870.3200 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 36 870.3465 EPA stated in the Scoping Document that these data are not required for bispyribacsodium.
- 37 870.6200 EPA stated in the Scoping Document that these data are not required for bispyribacsodium.
- 38 870.4100 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 39 870.4200 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.

- 40 870.3700 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- 41 870.3800 The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- 42 870.5100 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document for technical material and metabolites.
- 43 870.5300, 870.5375 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ⁴⁴ 870.5385, 870.5395, 870.5450, 870.5550 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- 45 870.7485 The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- 46 870.7800 EPA stated in the Scoping Document that these data are not required for bispyribacsodium.
- ⁴⁷ Nonguideline Acceptable, nonguideline studies listed in the Scoping Document. The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ⁴⁸ **875.1100**, **875.1300** Esstar Crop Science, Inc. is an affiliate in good standing with the Agricultural Handlers Exposure Task Force.
- ⁴⁹ 875.2200, 875.2400, 875.2500 Esstar Crop Science, Inc. is an affiliate in good standing with the Outdoor Residential Exposure Task Force and the Agricultural Re-Entry Task Force.
- 50 201-1, 202-1 Esstar Crop Science, Inc. is an affiliate in good standing with the Spray Drift Task Force.
- 51 850.4100 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- 52 850.4150 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- 53 850.4400, 850.5400 The studies cited are acceptable and satisfy the data requirement per the Problem Formulation.
- 54 835.2120 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- 55 835.2240 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- 56 835.2410 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- ⁵⁷ 835.2370 These data are not required as per the Problem Formulation.
- 58 835.4100 MRID 44929931 is classified as acceptable and partially satisfies the data requirement per the Problem Formulation, but that data on three additional soils are still required. The DCI has not yet been issued, nor does it appear that these data have been submitted.
- ⁵⁹ **835.4200** These data are not required as per the Problem Formulation and that acceptable anaerobic aquatic metabolism data would be used to satisfy this data requirement.
- 60 830.4300 These data were required in the Problem Formulation and Final Work Plan, but a Data Call-In has not yet been issued, nor does it appear that these data have been submitted.
- 61 835.4400 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.

- 62 835.1230 The study cited is acceptable and satisfies the data requirement per the Problem Formulation.
- 63 835,1410 These data are not required as per the Problem Formulation.
- 64 835.6100 Esstar Crop Science, Inc. is proposing formulation into end-use products for rice only. The data submitted for this data requirement were submitted to support the use of bispyribac on turf. Because this use site is not proposed on Esstar Crop Science, Inc.'s label, no data are cited here.
- 65 835.6200 The acceptable studies listed in the Problem Formulation as satisfying the data requirement and submitted to support use on rice are cited. Unacceptable studies, studies not listed in the Problem Formulation as acceptable, or studies submitted to support aquatic use sites (which are not on Esstar Crop Science, Inc.'s proposed labeling) are not cited.
- 66 850.6100 The studies cited are acceptable and satisfy the data requirement per the Problem Formulation. MRID 44889238 - 44889243 are also cited.
- 67 860.1340 Only data submitted to support use on rice (not aquatic applications) are cited.
- 68 860.1480 Only data submitted to support use on rice (not aquatic applications) are cited. Waiver requests for these data related to livestock drinking treated water are not cited as these uses are not on Esstar Crop Science, Inc.'s proposed labeling.
- 69 860.1400 Esstar Crop Science, Inc.'s product is proposed for use only on rice; aquatic non-food applications are not proposed. Therefore, no data are cited here.